Commonwealth of Kentucky
Environmental and Public Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382

Final

AIR QUALITY PERMIT

Issued under 401 KAR 52:020

Permittee Name:	**Topy Corporation**
Mailing Address:	**980 Chenault Road, Frankfort, Kentucky 40601**
Source Name:	**Same as above**
Mailing Address:	**Same as above**
Source Location:	**Same as above**
Permit Number:	**V-02-015 (Revision 1)**
Source A. I. #:	**1421**
Activity #:	**APE20040001**
Review Type:	**Title V**
Source ID #:	**21-073-00038**
Regional Office:	**Frankfort** **643 Teton Trial, Suite B** **Frankfort, KY 40601-1758** **(502)564 -3358**
County:	**Franklin**
Application Complete Date:	**November 25, 2004**
Issuance Date:	**December 13, 2002**
Revision Date:	**March 24, 2006**
Expiration Date:	**December 13, 2007**

John S. Lyons, Director
Division for Air Quality

TABLE OF CONTENTS

Definitions: **The following definitions apply to all abbreviations and variables used in this permit:**

PT – total particulate matter
PM10 – particulate matter equal to or smaller than 10 micrometers
CO – carbon monoxide
NO_x – nitrogen oxides
SO_2 – sulfur dioxide
Pb – lead
VOC – volatile organic compounds

Rev #	Permit type	Log #	Complete Date	Issuance Date	Summary of Action
----	Initial Issuance	50691	7/29/97	12/13/02	
1	Minor revision	56613	11/25/04	3/24/06	New Melting Furnace

SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

01, 04, 17 (S1, S4, S23) Line #1, Line#2 and Line#3 Flash Butt Welding (FBW)

Description: Electric resistance welding to join ends of outer rim band for steel wheels Line 1 was installed in October 1985, Line 2 in May 1989 and Line 3 in 2002.Lines 1 and 2 have 2 FBW while line 3 has only one FBW. All machines are made by Osaki Denki Corp. Capacities are 1050 pieces per hour each. Primary controls for particulate from welding are cyclones with 90% control efficiency, secondary controls are cartridge filters with a 97% control efficiency. Associated with each welder is a Planisher and a Trimmer, neither of which are controlled.

APPLICABLE REGULATIONS:

401 KAR 59:010, New process operations, applies to Lines 1, 2, & 3 Flash Butt Welding Machines, Planishers and Trimmers.

1. Operating Limitations:

The above affected facilities shall be operated in a manner which ensures compliance with the emission limitations in Section B2. below.

2. Emission Limitations:

A. Visible emissions shall not equal or exceed 20% opacity.
401 KAR 59:010, Section 3(1)(b)

B. Particulate emissions shall not equal or exceed 2.34 lbs. per hour for each machine.
401 KAR 59:010, Section 3(2)

Compliance Demonstration Method: For Welders compliance with emission limits is assumed when cartridge filters are in place and cyclones are operating. Planisher and Trimmer emissions are within limits by design.

3. Testing Requirements: See Section D.

4. Specific Monitoring Requirements:

Cyclone pressure drop shall be noted daily. The permittee shall perform a qualitative opacity observation for each welding operation daily. The presence of opacity in emissions shall necessitate a Method 9 opacity reading by a qualified observer. See also Section F.

5. Specific Recordkeeping Requirements:

A. Pressure drop across the dust collector shall be recorded daily.

B. The permittee shall keep records of maintenance and repair performed on emission control units associated with the three flash butt welding machines. This shall include replacement of pulse jet cartridges.

C. Results of opacity observations and Method 9 readings shall be recorded. A Method 9 reading which equals or exceeds 20% opacity shall require a record of actions taken to bring emissions into compliance.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. Specific Reporting Requirements:
See Section F.

7. Specific Control Equipment Operating Conditions:
Each dust collector shall have positive pressure drop during welding operations. See also Section E.

8. Alternate Operating Scenarios: NA

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

03, 05, 18 (S3, S5, S24) Line #1 Disc Welding, Line #2 Disc Welding, Line #3 Disc Welding
Description: Line 1 was installed in October 1985, Line 2 in May 1989 and Line 3 in 2002. These welders attach the centers of the steel wheels to the rim bands. Lines 1 and 2 have four Mag Arc Welders each, with Line 2 having an additional three Mag Welders for special assembly and three spot welders. Line 3 consists of six Mag Arc Welders which are controlled and vented to a dust collector. Line 1 has no control for the Mag Arc Welders. Line 2 is controlled by an electrostatic precipitators for particulate control. Control efficiency for Lines 2 and 3 is 95%.

APPLICABLE REGULATIONS:
401 KAR 59:010, New process operations, applies to Lines 1, 2 and 3.

1. **Operating Limitations:**
   The above affected facilities shall be operated in a manner which ensures compliance with the emission limitations in Section B2. below. Electrostatic precipitators shall be maintained and operated in accordance with manufacturer's specifications and recommendations.

2. **Emission Limitations:**
   A. Visible emissions shall not equal or exceed 20% opacity.
   401 KAR 59:010, Section 3(1)(b).
   B. Particulate emissions shall not equal or exceed 2.34 lbs. per hour for each machine.
   401 KAR 59:010, Section 3(2).
   Compliance Demonstration Method: Qualitative opacity observation shall be used to demonstrate compliance with opacity requirements. Potential emission of PM is less than applicable limits.

3. **Testing Requirements:** See Section D.

4. **Specific Monitoring Requirements:**
   The permittee shall perform a qualitative opacity observation for each welding operation daily. The presence of opacity in emissions shall necessitate a Method 9 opacity reading by a qualified observer.

5. **Specific Recordkeeping Requirements:**
   Results of opacity observations and Method 9 readings shall be recorded. A Method 9 reading, which equals or exceeds 20% opacity shall require a record of actions taken to bring emissions into compliance.

6. **Specific Reporting Requirements:** See Section F.

7. **Specific Control Equipment Operating Conditions:**
   Normal readings for electrostatic precipitator control panel should be approximately 15 Milliamperes DC and 15 Kilovolts DC for the A-stage, and 8 Milliamperes DC and 8 Kilovolts DC for the B-stage. See also Section E.
8. **Alternate Operating Scenarios:** N.A.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

10, 35, 16 (S10, A17, S20) Paint Lines

Description:
EP 10 (S10) is the solvent based painting operation on Line #1 for steel wheels. All points are vented to a thermal oxidizer. Particulate control for a) and b) is captured by panel filters. PM control efficiency is 99.9%. Control efficiency of VOC's is 99%. EP10 (S10) was installed in January 1996. The line consists of :
a) Robotic Paint Applicators (6 Booths)
b) Electrostatic Spray
c) Flash-off Tunnel
d) Top Coat Oven
e) Repair Booth and associated oven
f) Paint Mix Room

EP 16 (S20) is a new solvent based robotic spray painting operation on Line #2 for steel wheels. All points are vented to the same thermal oxidizer as EP 10 (S10) above. PM is to be controlled by panel filters with 99.9% removal efficiency. EP 16 is identical to EP 10, with the same equipment as listed above for EP 10. The two lines will share only the repair booth.

APPLICABLE REGULATIONS:

401 KAR 59:225, New miscellaneous metal parts and products surface coating operations is applicable to each paint line listed above.
401 KAR 59:010, New process operations, applies to each paint line listed above.
401 KAR 63:002: 40 CFR Part 63 national emission standards for hazardous air pollutants; 40 CFR 63.3880 to 63.3981 (Subpart MMMM), Surface Coating of Miscellaneous Metal Parts and Products. The initial compliance period for an existing affected source begins January 2, 2007.

1. Operating Limitations:

The above affected facilities shall be operated in a manner which ensures compliance with the emission limitations in Section B2. below.

2. Emission Limitations:

A. The permittee shall not discharge into the atmosphere more than 15% by weight of the VOC's net input into each paint line. (401 KAR 59:225, Section 3*)*

Compliance Demonstration Method:

1. Capture efficiency (C) shall be demonstrated for each emission collection device. A manufacturer's guarantee or demonstration by temporary total enclosure shall be acceptable proof of capture efficiency.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Using demonstrated destruction efficiency (D) of the oxidizer to which captured emissions have been routed:

$$\text{Actual VOC Emissions} = \sum_{i=1}^{n} M_i \rho_i (1-C_i) + (1-D) \sum_{i=1}^{n} M_i \rho_i C_i$$

Where M = pounds of material (primer, thinner, paint) applied at point i .
ρ = percent by weight of VOC in material
n = total number of emission points

3. % VOC emitted = Actual VOC's (from above)/ Total VOC's Input (from MSDS or testing)

B. Visible emissions from each paint line shall not equal or exceed 20% opacity.
401 KAR 59:010, Section 3(1)(b)

C. Particulate emissions from each line shall not equal or exceed 2.34 lbs. per hour for each machine.
401 KAR 59:010, Section 3(2)

Compliance Demonstration Method: Particulate emissions shall be considered to meet limitations above when filters are in place and in good condition.

3. Testing Requirements: See Section G(d)

4. Specific Monitoring Requirements:

A. The permittee shall monitor the chamber temperature of the each thermal oxidizer on a continuous basis.
B. Particulate filters shall be visually inspected once per shift.

5. Specific Recordkeeping Requirements:

1. Incinerator combustion chamber temperature shall be recorded on a continuous basis.

2. Records of VOC and/or HAP containing materials used shall be kept on a monthly basis.

3. Records of repair and maintenance shall be kept for each incinerator.

4. Records of HAP emissions and gallons of solids applied with a monthly average of pounds of HAP's emitted per gallon of solids applied for EP 16, steel paint line #2, shall be kept separately in order to determine compliance with Subpart B requirements.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. The permittee shall record all periods (during actual coating operations) in excess of 3 hours during which the average temperature in any thermal incinerator used to controlemissions from an affected facility remains more than 28° C (50° F) below the temperature at which compliance was demonstrated during the most recent measurement of incinerator efficiency.

6. The permittee shall maintain a log of particulate filter inspections showing time of inspection, identity of inspecting personnel, and filter replacements.

7. Records shall be maintained for a period of five years.

6. Specific Reporting Requirements:

1. The permittee shall identify, record, and submit a written report to the Division's Frankfort Field Office of each instance in excess of 3 hours during which the average temperature of the thermal incinerator used to control emissions from an affected facility remains more than 28° C (50° F) below that at which compliance was demonstrated during the most recent measurement of incinerator efficiency. If no such periods occur, the permittee shall state this in a report to be submitted **semiannually**.

2. See also Section F.

7. Specific Control Equipment Operating Conditions:

The temperature of the thermal oxidizer combustion chamber averaged over any 3 consecutive hours shall be no more than $28^{o}C$ ($50^{o}F$) below the average temperature recorded during the most recent performance test which demonstrates compliance.

8. Alternate Operating Scenarios: None

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

21 (A2) Dross Room

Description: Removal of impurities from molten aluminum, alloying and charging of melt furnace with aluminum. Dust is controlled by a cartridge dust collector with 99% efficiency.

APPLICABLE REGULATIONS:

401 KAR 59:010, New process operations, applies to the Dross Room.
401 KAR 63:010 Fugitive emissions.

1. Operating Limitations:

a) The above affected facilities shall be operated in a manner which ensures compliance with the emission limitations in Section B2. below.
b) Pursuant to 401 KAR 63:010, reasonable precautions shall be taken to prevent particulate matter from becoming airborne.

2. Emission Limitations:

a. Pursuant to 401 KAR 59:010, for equipment constructed on or after July 2, 1975:
   I. Visible emissions from the Dross Room shall not equal or exceed 20% opacity. 401 KAR 59:010, Section 3(1)(b).
   II. Hourly particulate emissions for each emission point as measured by Reference Method 5, Appendix A, 40 CFR 60, averaged over three hours shall not exceed the limit calculated by the following formula:

$$E = 3.59\ P^{0.62}$$

Where P is the process weight (total weight of all materials introduced into any emission unit which may cause the emissions of particulate matter) in tons/hour. If the process weight for a particular emission point equals or is less than 0.5 ton/hour, the particulate matter emission limitation shall be 2.34 lbs/hr.

Compliance Demonstration Method: Particulate emissions shall be considered to meet limitations above when filter is in place and in good condition.

3. Testing Requirements: See Section D

4. Specific Monitoring Requirements:

The permittee shall perform a qualitative opacity observation daily. The presence of opacity in emissions shall necessitate a Method 9 opacity reading by a qualified observer.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. **Specific Recordkeeping Requirements:**
Results of opacity observations and Method 9 readings shall be recorded. A Method 9 reading which equals or exceeds 20% opacity shall require a record of actions taken to bring emissions into compliance.

6. **Specific Reporting Requirements:** See Section F

7. **Specific Control Equipment Operating Conditions:** See Section E

8. **Alternate Operating Scenarios:** N.A.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

46 (A1) Aluminum Processing
(a) Melting Furnace (MF-3)
(b) Dross Door
(c) Side well

Description: Processing rate of 4.5 tons per hour or 39,420 tons per year with a burner rated capacity of 18 MBtu per hour. Particulate emissions are controlled alternately by three baghouses (#2, #3, #4) through a common duct. The side well is not controlled. Control efficiency is 99.5%. Installed 12/04.

APPLICABLE REGULATIONS:

401 KAR 59:010, New process operations, applies to the aluminum processing operations.
401 KAR 63:002 40 CFR Part 63 national emission standards for hazardous air pollutants incorporating 40 CFR 63.1500 to 63.1519 (Subpart RRR), "National Emissions Standards for Hazardous Air Pollutants for Secondary Aluminum Production"-Applies to PM/PM_{10}, HCl, and D/F emissions from each Group 1 Furnace.
401 KAR 63:010 Fugitive emissions.

1. Operating Limitations:

a. Pursuant to 40 CFR 63 Subpart RRR:
   i. The permittee shall prepare, implement and maintain an operation, maintenance, and monitoring plan.
   ii. Equipment shall be labeled with the appropriate information as required by 63.1506(b).

b. Pursuant to 40 CFR 63 Subpart RRR, for all furnaces listed above:
   i. Each furnace shall be operated within the range of charge materials, contaminant levels, and parameter values established in the site-specific monitoring plan.
   ii. The permittee shall install a measuring device for weighing the feed/charge in accordance with 63.1510(e). This device shall be calibrated according to manufacturers specifications, or at least every 6 months.
   iii. The permitee must provide and maintain easily visible labels posted at each group 1 furnace, group 2 furnace, in-line fluxer and scrap dryer/ delacquering kiln/ decoating kiln that identify the applicable emission limits and the means of compliance.
   iv. The permittee shall perform non-reactive fluxing only- self imposed to preclude the applicability of 40 CFR Subpart RRR Section 63.1505 (j).

c. Pursuant to 40 CFR 63 Subpart RRR, for the three baghouses:
   - The permittee shall install and operate a bag leak detection system or a continuous opacity monitoring system (COMS) in accordance with 63.1510(f).

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations:

a. Pursuant to 401 KAR 59:010, for equipment constructed on or after July 2, 1975:

i. Visible emissions shall not equal or exceed 20 percent opacity, as determined by using Reference Method 9, Appendix A, 40 CFR 60.

ii. Hourly particulate emissions for each emission point as measured by Reference Method 5, Appendix A, 40 CFR 60, averaged over three hours shall not exceed the limit calculated by the following formula:

$$E = 3.59\ P^{0.62}$$

Where P is the process weight (total weight of all materials introduced into any emission unit which may cause the emissions of particulate matter) in tons/hour (averaged monthly). If the process weight for a particular emission point equals or is less than 0.5 ton/hour, the particulate matter emission limitation shall be 2.34 lbs/hr.

b. Pursuant to 40 CFR 63 Subpart RRR, for each Group 1 furnace listed above:

i. Particulate matter emissions shall not exceed 0.40 lb per ton of feed/charge;

ii. HCl emissions shall not exceed 0.40 lb/ton of feed/charge;

iii. Dioxin/furan emissions shall not exceed 0.00021 grain of D/F TEQ per ton of feed/charge (15μg per mg).

Compliance Demonstration Method:

The permittee shall demonstrate compliance with the emission standards listed above as follows:

1) Pursuant to 401 KAR 59:010, to provide reasonable assurance that the particulate matter emission limitations are being met (if compliance is not demonstrated with 40 CFR 63 Subpart RRR), the permittee shall monitor the amount and type of process weight added to each emissions unit. The hourly process weight shall be equal to the average hourly tons added to each emission unit averaged over one month. Particulate emissions shall be calculated as follows:

$$PE = PW \times PEF$$

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Where PE = particulate emissions in average lbs/hr, PW = process weight in tons/hr, and PEF = particulate emission factor in lbs/ton of process weight. The particulate emission factors shall be the number in the Kentucky emission inventory system or other emission test or emission factors approved by the Division.

2) Pursuant to 40 CFR 63 Subpart RRR, Compliance with the PM, HCl, and D/F emissions shall be demonstrated using the following equation:

$$E = \frac{CxQxK1}{P}$$

Where, E is the emission rate of PM, HCl, or D/F, (lb/ton) of feed, C is the concentration of PM, HCl, or D/F, gr/dscf, Q is the volumetric flow rate of exhaust gases, dscf/hr, K1 is the conversion factor, 1 lb / 7,000 gr and P is the production rate (ton/hr).

3) Compliance with the more stringent 40 CFR 63 Subpart RRR limitations ensures compliance with 401 KAR 59:010 PM limits.

3. Testing Requirements:

Pursuant to 40 CFR 63 Subpart RRR, the permittee shall test for PM, HCL and D/F at least once during the permit life as appropriate for each listed unit or for a representative unit as allowed under 40 CFR 63.1511(f). See also Section D.

4. Specific Monitoring Requirements:

I. The permittee shall monitor the following parameters:
   a. Pressure drop at the baghouses shall be read once per operating day.
   b. Monthly total hours of operation.
   c. Monthly total aluminum production.
   d. The permittee shall perform a qualitative opacity observation for each baghouse daily. The permittee shall survey the emission unit for visible emissions and maintain a log of observations.
   e. If no visible emissions are observed then no further monitoring is required. If visible emissions are observed, the permittee shall perform a Method 9 reading. The opacity observed shall be recorded in the daily log. The reading shall be performed by a representative of the permittee certified in Visible Emissions Evaluations. The permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and the date of certification.

II. Pursuant to 40 CFR 63 Subpart RRR, the permittee shall:
   a. Record the weight of each feed/charge using a measuring device or other procedure with accuracy of +/- 1%.
   b. Check labels monthly to confirm that they are intact and legible.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

c. Initiate corrective action within 1 hour of a bag leak detection system alarm and complete the corrective action procedures in accordance with the OM&M plan for the three baghouses.
d. Inspect each capture/collection and closed vent system at least once each calendar year to ensure that each system is operating in accordance with the operating requirements in section 63.1506(c) and record the results of each inspection.
e. The owner or operator of an in-line fluxer that uses no reactive flux materials must submit a certification of compliance with the operational standard for no reactive flux materials in § 63.1506(l) for each 6-month reporting period. Each certification must contain the information in § 63.1516(b)(2)(vi).

5. Specific Recordkeeping Requirements:

a. Records shall be maintained in accordance with 40 CFR 63 Subpart RRR 63.1517. Results of opacity observations and Method 9 readings shall be recorded. A Method 9 reading, which equals or exceeds 20% opacity shall require a record of actions taken to bring emissions into compliance. Records shall also be maintained of the amount of process weight added to each emissions unit, the amount and type of reactive flux added and the hours of operation.
b. A log of pressure drop readings, which denotes the date, time, and identity of inspecting personnel shall be kept. Any repairs performed or problems noted shall also be recorded.
c. Monthly total hours of operation and aluminum production.
d. Calculate and record the 3-day, 24-hour rolling average for each pollutant each day by summing the daily emission rates for each pollutant over the 3 most recent consecutive days and dividing by 3.

6. Specific Reporting Requirements:

a. The permittee shall submit reports in accordance with 40 CFR 63 Subpart RRR, sections 63.1515, Notifications and 63.1516, Reports.
b. With the exception of specific reporting requirements outlined above, the permittee shall report exceedances of any operating or emission limit specified in this permit to the Division's Frankfort Regional Office as described in **Section F8.**

7. Specific Control Equipment Operating Conditions:

a. Negative pressure (positive pressure drop) shall be maintained inside each baghouse at all times of operation of the affected facility.
b. Baghouses shall be maintained and operated in accordance with manufacturer's specifications and recommendations, and/or OM & M plan.
c. The capture/collection systems must meet the engineering standards for minimum exhaust rates as published by the ACGIH in chapters 3 and 5 of "industrial Ventilation" in accordance with 40 CFR 63 Subpart RRR, section 63.1506 (C).

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

35 (A17) Aluminum Wheel Coating Line

Description:
A17(a) Colorcoat booth #1
A17(b) Colorcoat booth #2
A17(c) Mask Washers
A17(d) Flash-off Tunnels (2)
A17(e) Bake Oven #1
A17(f) Bake Oven #2
A17(g) Paint Mix Rooms

The line was installed May, 1989. Particulate is controlled using a three stage dry filter system. Control efficiency is 99.9%. VOC emissions are controlled by a thermal oxidizer at 99% efficiency. All points are vented to the oxidizer.

APPLICABLE REGULATIONS:

401 KAR 59:225, New miscellaneous metal parts and products surface coating operations is applicable to each paint line listed above.
401 KAR 59:010, New process operations, applies to each paint line listed above.
401 KAR 63:002: 40 CFR Part 63 national emission standards for hazardous air pollutants; 40 CFR 63.3880 to 63.3981 (Subpart MMMM), Surface Coating of Miscellaneous Metal Parts and Products. The initial compliance period for an existing affected source begins January 2, 2007.

1. Operating Limitations:

The above affected facilities shall be operated in a manner which ensures compliance with the emission limitations in Section B2. below.

2. Emission Limitations:

A. The permittee shall not discharge into the atmosphere more than 15% by weight of the VOC's net input into each paint line. (401 KAR 59:225, Section 3*)*

Compliance Demonstration Method:

1. Capture efficiency (C) shall be demonstrated for each emission collection device. The source is required to demonstrate VOC emission capture efficiency using EPA testing method 204.

2. Using demonstrated destruction efficiency (D) of the oxidizer to which captured emissions have been routed:

$$\text{Actual VOC Emissions} = \sum_{i=1}^{n} M_i \rho_i (1-C_i) + (1-D) \sum_{i=1}^{n} M_i \rho_i C_i$$

Where M = pounds of material (primer, thinner, paint) applied at point i .
ρ = percent by weight of VOC in material
n = total number of emission points

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. % VOC emitted = Actual VOC's (from above)/ Total VOC's Input (from MSDS or testing).

B. Visible emissions from the paint line shall not equal or exceed 20% opacity. 401 KAR 59:010, Section 3(1)(b)

C. Particulate emissions from each line shall not equal or exceed 2.34 lbs. per hour for each machine. 401 KAR 59:010, Section 3(2)

Compliance Demonstration Method: Particulate emissions shall be considered to meet limitations above when filters are in place and in good condition.

3. Testing Requirements: See Section G(d)

4. Specific Monitoring Requirements:

A. The permittee shall monitor the chamber temperature of the thermal oxidizer on a continuous basis.

B. Particulate filters shall be visually inspected once per shift.

5. Specific Recordkeeping Requirements:

1. Incinerator combustion chamber temperature shall be recorded on a continuous basis.

2. Records of VOC and/or HAP containing materials used shall be kept on a monthly basis.

3. Records of repair and maintenance shall be kept for the incinerator.

4. A. The permittee shall record all periods (during actual coating operations) in excess of 3 hours during which the average temperature in any thermal incinerator used to control emissions from an affected facility remains more than 28° C (50° F) below the temperature at which compliance was demonstrated during the most recent measurement of incinerator efficiency.

5. The permittee shall maintain a log of particulate filter inspections showing time of inspection, identity of inspecting personnel, and filter replacements.

6. Records shall be maintained for a period of five years.

6. Specific Reporting Requirements:

The permittee shall identify, record, and submit a written report to the Division's Frankfort Field Office of each instance in excess of 3 hours during which the average temperature of the thermal incinerator used to control emissions from an affected facility remains more than 28° C (50° F) below that at which compliance was demonstrated during the most recent measurement of incinerator efficiency. If no such periods occur, the permittee shall state this in a report to be submitted **semiannually**. See also Section F.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

7. Specific Control Equipment Operating Conditions:

The temperature of the thermal oxidizer combustion chamber averaged over any 3 consecutive hours shall be no more than 28°C (50°F) below the average temperature recorded during the most recent performance test which demonstrates compliance.

8. Alternate Operating Scenarios: None

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

41 (A24) Aluminum Chip Recovery

Description: Three screw conveyors, Smoke hood burner, Chip drying kiln, Chip Drying Kiln Hood, Chip densifier, Secondary Smoke Hood, Smoke from oil burnoff is controlled by an afterburner and a cyclone at 99% efficiency.
Construction Commenced: May, 1989

APPLICABLE REGULATIONS:
401 KAR 59:010, New process operations, applies to the aluminum chip recovery operations.
40 CFR 63 Subpart RRR, National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production.
401 KAR 63:010 Fugitive emissions.

1. Operating Limitations:

a. The above affected facilities shall be operated in a manner which ensures compliance with the emission limitations in Section B2. below.
b. The hourly average aluminum scrap charge shall not exceed 0.93 tons/hour, and the annual charge shall not exceed 8181 tons of Aluminum chips per 12-month rolling average (no more than 110% of the average test rate established during the performance test) [401 KAR 50:045].
c. Pursuant to 40 CFR 63 Subpart RRR:
    i. The permittee shall prepare, implement and maintain an operation, maintenance, and monitoring plan.
    ii. Equipment shall be labeled with the appropriate information as required by 63.1506(b).
d. Pursuant to 40 CFR 63 Subpart RRR, the permittee shall install a measuring device for weighing the feed/charge in accordance with 63.1510(e). These devices shall be calibrated according to manufacturers specifications, or at least every 6 months.
e. Pursuant to 40 CFR 63 Subpart RRR 63.1510(g), the permittee shall maintain the 3-hour block average operating temperature of the afterburner at or above the average temperature established during the performance test.
f. The permittee shall not operate the Aluminum chip recovery unless its associated afterburner and cyclone system is operating in accordance with the approved operation, maintenance, and monitoring (OM & M) plan.
g. Pursuant to 401 KAR 63:010, reasonable precautions shall be taken to prevent particulate matter from becoming airborne.

2. Emission Limitations:

A. Visible emissions from the aluminum chip recovery operations shall not equal or exceed 20% opacity. 401 KAR 59:010, Section 3(1)(b).
B. Hourly particulate emissions for each emission point as measured by Reference Method 5, Appendix A, 40 CFR 60, averaged over three hours shall not exceed the limit calculated by the following formula:

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

$$E = 3.59\ P^{0.62}$$

Where P is the process weight (total weight of all materials introduced into any emission unit which may cause the emissions of particulate matter) in tons/hour monthly averaged. If the process weight for a particular emission point equals or is less than 0.5 ton/hour, the particulate matter emission limitation shall be 2.34 lbs/hr.

C. Pursuant to 40 CFR 63 Subpart RRR, for chip drying kiln listed above equipped with an afterburner having a design residence time of at least 1 second and the afterburner is operated at a temperature of at least 1400ºF at all times:
   1. Particulate matter emissions shall not exceed 0.3 lb per ton of feed/charge.
   2. HCl emissions shall not exceed 1.5 lb/ton of feed/charge.
   3. Dioxin/furan emissions shall not exceed 0.00007 grain of D/F TEQ per ton of feed/charge (5µg per mg).
   4. THC emissions shall not exceed 0.2 lb per ton of feed/charge.

Compliance Demonstrations: The permittee shall demonstrate compliance with the emission standards listed above as follows:

1. Pursuant to 401 KAR 59:010, to provide reasonable assurance that the particulate matter emission limitations are being met (if compliance is not demonstrated with 40 CFR 63 Subpart RRR), the permittee shall monitor the amount and type of process weight added to each emissions unit. The hourly average process weight shall be equal to the average hourly tons added to each emission unit averaged over one month. Particulate emissions shall be calculated as follows:

$$PE = PW\ x\ PEF$$

Where PE = particulate emissions in average lbs/hr, PW = process weight in tons/hr, and PEF = particulate emission factor in lbs/ton of process weight. The particulate emission factors shall be the number in the Kentucky emission inventory system or other emission test or emission factors approved by the Division.

2. Pursuant to 40 CFR 63 Subpart RRR, compliance with the PM, HCl, and D/F emissions shall be demonstrated using the following equation:

$$E = \frac{CxQxK1}{P}$$

Where, E is the emission rate of PM, HCl, or D/F, (lb/ton) of feed, C is the concentration of PM, HCl, or D/F, gr/dscf, Q is the volumetric flow rate of exhaust gases, dscf/hr, K1 is the conversion factor, 1 lb / 7,000 gr and P is the production rate (ton/hr).

3. Compliance with the more stringent 40 CFR 63 Subpart RRR limitations ensures compliance with all other associated limits.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Testing Requirements:

Pursuant to 40 CFR 63 Subpart RRR §63.1511, an initial performance test is required to demonstrate that each emissions unit or control device can meet the level of emissions required in the limit. A repeat performance test will be required every five years following the initial test. You must submit a test plan 60 days prior to the date the test is scheduled. The plan should outline the test methods and procedures to be followed. For test methods see 40 CFR §63.1511 (c). The following methods shall also be used during each performance test:

- Each test must be performed at the outlet of the emission unit or control device;
- Each test must be performed at the highest capacity of the process with charge materials representative of the range of materials processed;
- For a continuous process the test must consist of 3 runs, each of the length specified in the test method or, if not specified, a minimum of 3 hours;
- For multiple units exhausted through a common stack, each run must be conducted over a period of time during which each of the units completes at least one entire operating cycle or for 24 hours, whichever is shorter;
- For each afterburner, the temperature must be continuously monitored at the exit of the combustion chamber and recorded every 15 minutes during the test;
- The temperature of the afterburner must be maintained at or above 1400º F in each 3-hour block testing period;
- Establish minimum/maximum operating parameter values during the performance test.

4. **Specific Monitoring Requirements:**

a. Pursuant to 401 KAR 59:010, to provide reasonable assurance that the visible emission limitations are being met the permittee shall:

i. Once per day, during all periods of chip drying kiln process operation, the permittee shall survey the emission unit for visible emissions and maintain a log of observations.

ii. If no visible emissions are observed then no further monitoring is required. If visible emissions are observed, the permittee shall perform a Method 9 reading. The opacity observed shall be recorded in the daily log. The reading shall be performed by a representative of the permittee certified in Visible Emissions Evaluations. The permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and the date of certification.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

b. Pursuant to 40 CFR 63 Subpart RRR, the permittee shall:
   i. Record the weight of each feed/charge using a measuring device or other procedure with accuracy of +/- 1%.
   ii. Check labels monthly to confirm that they are intact and legible.
   iii. Must install, calibrate, maintain and operate a device to continuously monitor and record the operating temperature of the afterburner consistent with the requirements in **7. Specific Control Equipment Operating Conditions,** below.
   iv. The temperature monitoring device must be installed at the exit of the combustion zone of the afterburner.
   v. The monitoring system must record the temperature in 15-minute block averages and determine and record the average termperature for each 3-hour block period.
   vi. The recorder response range must include zero and 1.5 times the average temperature established according to the requirements in **3. Testing Requirements** above.
   vii. The reference method must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Division for Air Quality.
   viii. The permittee must conduct an inspection of each afterburner at least once a year and record the results. At a minimum, the inspection must include:
      1) Inspection of all burners, pilot assemblies, and pilot sensing devices for proper operation and clean pilot sensor;
      2) Inspection for proper adjustment of combustion air;
      3) Inspection of internal structures (e.g. baffles) to ensure structural integrity;
      4) Inspection of dampers, fans, and blowers for proper operation;
      5) Inspection for proper sealing;
      6) Inspection of motors for proper operation;
      7) Inspection of combustion chamber refractory lining and clean and replace lining as necessary;
      8) Inspection of afterburner shell for corrosion and/or hot spots;
      9) Documentation, for the burn cycle that follows the inspection, that the afterburner is operating properly and any necessary adjustments have been made; and
      10) Verification that the equipment is maintained in good operating condition.
      11) Following an equipment inspection, all necessary repairs must be completed in accordance with the requirements of the OM & M plan.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Recordkeeping Requirements:

Records shall be maintained in accordance with 40 CFR 63 Subpart RRR 63.1517. Records shall also be maintained of the visual observations, annual Reference Method 9 tests, and the amount of process weight added to each emissions unit and the hours of operation.

6. Specific Reporting Requirements:

a. The permittee shall submit reports in accordance with 40 CFR 63 Subpart RRR 63.1516 and 63.1517.

b. With the exception of specific reporting requirements outlined above, the permitee shall report exceedances of any operating or emission limit specified in this permit to the Division as specified in Section F.8.

c. Startup, Shutdown and Malfunction Plan/Report, SSM plan.

7. Specific Control Equipment Operating Conditions:

The afterburner shall be maintained in accordance with 40 CFR 63, Subpart RRR.

8. Alternate Operating Scenarios: None

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

43 (A26) Vacuum Cleaning System for Powder Paint Recovery.

Description: Particulate emissions are controlled primarily by a cyclone with 95% capture efficiency and 99% control efficiency. Secondary control is provided by a panel filter with 99% overall control efficiency.

APPLICABLE REGULATIONS:
401 KAR 59:010, New process operations, applies to the vacuum cleaning system.

1. Operating Limitations:
The above affected facilities shall be operated in a manner which ensures compliance with the emission limitations in Section B2. below.

2. Emission Limitations:
A. Visible emissions from the vacuum cleaning system shall not equal or exceed 20% opacity. 401 KAR 59:010, Section 3(1)(b)
B. Particulate emissions from the vacuum cleaning system shall not equal or exceed 2.34 lbs. per hour. 401 KAR 59:010, Section 3(2)

Compliance Demonstration Method: Particulate emissions shall be considered to meet limitations above when filters are in place and in good condition and cyclone is operating at a positive pressure drop.

3. Testing Requirements: See Section D

4. Specific Monitoring Requirements:
Cyclone pressure drop shall be read once per day.

5. Specific Recordkeeping Requirements:
a) The permittee shall keep records of maintenance and repair performed on emission control equipment, including filter changes.
b) Cyclone pressure drop readings shall be recorded daily.

6. Specific Reporting Requirements: See Section F.

7. Specific Control Equipment Operating Conditions:
Cyclone shall have positive pressure drop at all times of operation. See also Section E

8. Alternate Operating Scenarios: N.A.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

45 (A28) Reverbratory Furnace (MF-2).

Description: Processing rate of 2.0 tons per hour or 17,520 tons per year with a burner rated capacity of 8 million Btu per hour. Particulate emissions are controlled alternately by three baghouses (#2, #3, #4) through a common duct. Control efficiency is 99%. Installed 12/97.

APPLICABLE REGULATIONS:
401 KAR 59:010, New process operations commenced on or after July 2, 1975.
401 KAR 63:002 40 CFR Part 63 national emission standards for hazardous air pollutants incorporating 40 CFR 63.1500 to 63.1519 (Subpart RRR), "National Emissions Standards for Hazardous Air Pollutants for Secondary Aluminum Production"-Applies to operation, and monitoring and recordkeeping for, Group 2 Furnace.
401 KAR 63:010 Fugitive emissions.

1. **Operating Limitations:**
   A. The above affected facilities shall be operated in a manner which ensures compliance with the emission limitations in Section B2. below.
   B. Only clean charge with no reactive flux will be charged to the furnace.
   C. The permittee shall prepare, implement and maintain an operation, maintenance, and monitoring plan as required by 40 CFR § 63.1510 (b).
   D. Equipment shall be labeled with the appropriate information as required by 63.1506(b).

2. **Emission Limitations:**
   A. Visible emissions shall not equal or exceed 20% opacity [401 KAR 59:010, Section 3(1)].
   B. Particulate emissions shall not equal or exceed 5.52 lbs. per hour [401 KAR 59:010, Section 3(2)].

Compliance Demonstration Method:
The permittee shall demonstrate compliance with the emission standards listed above as follows:

Pursuant to 401 KAR 59:010, to provide reasonable assurance that the particulate matter emission limitations are being met (if compliance is not demonstrated with 40 CFR 63 Subpart RRR), the permittee shall monitor the amount and type of process weight added to each emissions unit. The hourly average process weight shall be equal to the average hourly tons added to each emission unit averaged over one month. Particulate emissions shall be calculated as follows:

$$PE = PW \times PEF$$

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Where PE = particulate emissions in average lbs/hr, PW = process weight in tons/hr, and PEF = particulate emission factor in lbs/ton of process weight. The particulate emission factors shall be the number in the Kentucky emission inventory system or other emission test or emission factors approved by the Division.

3. Testing Requirements: See Section D

4. Specific Monitoring Requirements:

A. Pursuant to 401 KAR 59:010, to provide reasonable assurance that the visible emission limitations are being met the permittee shall:

I. Once per day, during all periods of melting process operation, the permittee shall survey the emission unit for visible emissions and maintain a log of observations.

II. If no visible emissions are observed then no further monitoring is required. If visible emissions are observed, the permittee shall perform a Method 9 reading. The opacity observed shall be recorded in the daily log. The reading shall be performed by a representative of the permittee certified in Visible Emissions Evaluations. The permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and the date of certification.

B. The monthly hours of operation and the process rate for the furnace for the same operating cycle or time period used in the performance test.

5. Specific Recordkeeping Requirements:

A. The permittee is required to keep records of all monitoring required in "Specific Monitoring Requirements" above.

B. Record a description of the materials charged to the furnace, including any nonreactive, non-HAP-containing/non-HAP –generating fluxing materials or agents.

6. Specific Reporting Requirements: See Section F.

7. Specific Control Equipment Conditions:

A. The baghouse shall be properly maintained, kept in good operating condition and operated in accordance with the manufacturer's specifications.

B. The permittee shall maintain a daily log of the pressure drop across the baghouse and ensure it remains in the proper operating range as specified by the manufacturer or in the OM&M plan.

8. Compliance Certification Requirements:

The permittee shall submit a certification of compliance with the applicable operational standard for charge materials in § 63.1506(o) for each 6-month reporting period. Each certification must contain the information in §63.1516(b)(2)(v).

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

18, 19, (S9, S19) Electrodeposition Painting

Description: EP 18 (S9) is electrodeposition painting on Line #1 (Installed 9/1985). EP 19 (S19) is electrodeposition painting on Line #2 (Installed 1/1996). Waterbased coatings are used on both lines. Associated with each electrodeposition tank are a preheat oven and a bake oven designated S9a, S9b, S19a and S19b respectively. With the exception of S9, the electrodeposition tank for Line #1, S9a, S9b, S19, S19a and S19b are controlled by thermal oxidation. Control efficiency is 98%.

APPLICABLE REGULATIONS:
401 KAR 59:225, New miscellaneous metal parts and products surface coating operations applies to these two coating lines. These emissions points are exempt from the requirements of Section 3 due to low VOC content of the coatings.
401 KAR 63:002: 40 CFR Part 63 national emission standards for hazardous air pollutants; 40 CFR 63.3880 to 63.3981 (Subpart MMMM), Surface Coating of Miscellaneous Metal Parts and Products. The initial compliance period for an existing affected source begins January 2, 2007.

1. **Operating Limitations:** VOC content of coatings as applied shall be less than 0.42 kg/l (3.5 lb/gal) excluding water or exempt solvent or both. (Section 6. Exemptions)

2. **Emission Limitations:** None

3. **Testing Requirements:** If deemed necessary, the cabinet shall obtain samples of the coatings used at the facility to verify that the coatings meet the requirements in Section 6 of 401 KAR 59:225.

4. **Specific Monitoring Requirements:** See Section F

5. **Specific Record Keeping Requirements:** Pursuant to 401 KAR 59:225 Section 4**,** Daily records shall be maintained by the source for the most recent two year period. These records shall include, but not be limited to:
   (a) Applicable regulation number;
   (b) Application method and substrate type;
   (c) Amount and type coating (including catalyst and reducer for multicomponent coatings), or solvent used at each point of application, including exempt compounds;
   (d) The VOC content as applied in each coating or solvent;
   (e) The date for each application for coating or solvent;
   (f) The amount of surface preparation, clean-up, or wash-up solvent (including exempt compounds) used and the VOC content of each.

6. **Specific Reporting Requirements:** See Section F

7. **Specific Control Equipment Operating Conditions:** See Section D

8. **Alternate Operating Scenarios:** None

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

Description	Generally Applicable Regulation
1. (S7) Degreasing	401 KAR 59:010
2. (S11, S12) Two Natural Gas Steam Boilers, 8.4 mmBTU/hr	401 KAR 59:015
3. (A1) Four Ladle Burners	401 KAR 59:010
4. (S8) Line #1 Phosphstizing	401 KAR 63:020
5. (A4) Sixteen Casting Machines, 0.4 mm BTU/hr each	401 KAR 59:010
6. (A5) Die Coat, Handblasters	401 KAR 59:010
7. (A6, A7, A8) Die Preheat #1, #2, #3	401 KAR 59:010
8. (A9) Solution Treatment Furnace	401 KAR 59:010
9. (A11) Tempering Furnace	401 KAR 59:010
10. (A13, A14) Smoothing/Shotblast	401 KAR 59:010
11. (A15) Degrease Stage of Pretreat	401 KAR 59:010
12. (A16c) Pretreat Drying Oven	None
13. (A18) Powder Paint Line(Polyester)	401 KAR 59:010
14. (A19a, A19b) Acrylic paint & Powder Baking Oven	401 KAR 59:225 (Exempt)
15. (A20) Seventeen Lathe Lines	None
16. (A22) Ultrasonic Cleaners	401 KAR 59:010
17. (A23) Cleaning Equipment	None
18. (A10) Quenching Tank	None
19. (A27) Natural Gas Steam Boiler, 7.5 mmBTU/hr	401 KAR 59:015

SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)

Description	Generally Applicable Regulation
20. (S2) Cooling Tonnel	None
21. (S13) Emergency Generator	None
22. (S14) Disk Part Washer	401 KAR 63:010
23. (S15, S16) Disc Line #1 and #2	None
24. (A12) Cooling Shower	None
25. (-) Face Wheel Disc Cutting	401 KAR 59:010
26. (S17) Degreasing Line (#2)	401 KAR 63:020
27. (S18) Phosphatizing Line (#2)	401 KAR 63:020
28. (S21, S22) Special Assembly Buffers/Grinder	401 KAR 59:010
29. (-) Ladle Cleaning	401 KAR 59:010

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.

2. PT, PM10, CO, Nox, SO_2, VOC, HCl, D/F, THC emissions, measured by applicable reference methods, or an equivalent or alternative method specified in 40 C.F.R. Chapter I, or by a test method specified in the state implementation plan shall not exceed the respective limitations specified herein.

SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS

1. When continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
   a. Date, place as defined in this permit, and time of sampling or measurements.
   b. Analyses performance dates;
   c. Company or entity that performed analyses;
   d. Analytical techniques or methods used;
   e. Analyses results; and
   f. Operating conditions during time of sampling or measurement.

   [Section 1b (IV) 1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b(IV) 2 and 1a(8) of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
   a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
   b. To access and copy any records required by the permit:
   c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.

   Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.

4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

5. Summary reports of any monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Section 1b (V)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due by January 30th and July 30th of each year. If continuous emission and opacity monitors are required by regulation or this permit, data shall be reported to the Technical Services Branch in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. All deviations from permit requirements shall be clearly identified in the reports.

7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
   a. When emissions during any planned shutdowns and ensuing startups will exceed the standards notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
   b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards notification shall be made as promptly as possible by telephone (or other electronic media) and shall cause written notice upon request.

8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report required by Section F.6 [Section 1b (V) 3, 4. of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26]

9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
   a. Identification of the term or condition;
   b. Compliance status of each term or condition of the permit;
   c. Whether compliance was continuous or intermittent;
   d. The method used for determining the compliance status for the source, currently and over the reporting period, and
   e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality
Frankfort Regional Office
643 Teton Trail, Suite B
Frankfort, KY 40601

U.S. EPA Region IV
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth St.
Atlanta, GA 30303-8960

Division for Air Quality
Central Files
803 Schenkel Lane
Frankfort, KY 40601

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.

11. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.

SECTION G - GENERAL PROVISIONS

(a) General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including termination, revocation and reissuance, revision or denial of a permit [Section 1a, 3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020 Section 26].

2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a, 6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
   a. If additional requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
   b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
   c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

   Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

3. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the conditions of this permit [Section 1a, 7,8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

4. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].

SECTION G - GENERAL PROVISIONS (CONTINUED)

6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a, 14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a, 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States [Section 1a, 15 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a, 10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3)(b)].

11. This permit does not convey property rights or exclusive privileges [Section 1a, 9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Natural Resources and Environmental Protection or any other federal, state, or local agency.

13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3)(d)].

14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3)(a)].

15. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.

SECTION G - GENERAL PROVISIONS (CONTINUED)

16. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement requirement prior to or at the time of issuance. Compliance with the conditions of a permit shall be considered compliance with:
    (a) Applicable requirements that are included and specifically identified in the permit .
    (b) Non-applicable requirements expressly identified in this permit.

(b) Permit Expiration and Reapplication Requirements

1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].

2. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:02+0 Section 8(2)].

(c) Permit Revisions

1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).

2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

(d) Construction, Start-Up, and Initial Compliance Demonstration Requirements
None

.

SECTION G - GENERAL PROVISIONS (CONTINUED)

(e) Acid Rain Program Requirements

1. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

(f) Emergency Provisions

1. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
   a. An emergency occurred and the permittee can identify the cause of the emergency;
   b. The permitted facility was at the time being properly operated;
   c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
   d. Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations are exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
   e. This requirement does not relieve the source from other local, state or federal notification requirements.

2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].

3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

(g) Risk Management Provisions

1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

   RMP Reporting Center
   Center, P.O. Box 1515
   Lanham-Seabrook, MD, 20703-1515

SECTION G - GENERAL PROVISIONS (CONTINUED)

2. If requested, submit additional relevant information to the Division or the U.S. EPA.

(h) Ozone depleting substances

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
   a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
   b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
   c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
   d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166.
   e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
   f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

SECTION H - ALTERNATE OPERATING SCENARIOS

Not Applicable

SECTION I - COMPLIANCE SCHEDULE

Not Applicable